

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit:

**Yunlong Sun, Jinjiao Liu, Richard S. Harris,  
Pradeep Subrahmanyam, Robert F. Hainsey, and Weixiong Lu**

Application No.

Filed:

For: **LASER PROCESSING OF A LOCALLY  
HEATED TARGET MATERIAL**

Examiner:

Date: February 11, 2004

INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to their duty of disclosure, applicants present for the Examiner's consideration the documents listed on the accompanying Form PTO-1449.

☒ Copies of the non-patent documents are enclosed.

☐ Copies (a copy) of document(s) \_\_\_\_\_ are (is) not enclosed because (1) they are already of record in U.S. Pat. Application No. \_\_\_\_\_, filed \_\_\_\_\_, on which this application relies for an earlier filing date under 35 U.S.C. § 120, and (2) any information disclosure statement filed in the prosecution of U.S. Pat. Application No. \_\_\_\_\_, complies with 37 C.F.R. §§ 1.98(a) and (c). (37 C.F.R. § 1.98(d).)

2. ☐ Applicant(s) draw(s) the Examiner's attention to the enclosed copy of copending U.S. Pat. Application No. \_\_\_\_\_, filed \_\_\_\_\_, for \_\_\_\_\_, which is cited in this application.

3. This information disclosure statement is being submitted:

a. ☒ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.)

- b. ☐ After the period set forth in paragraph 1a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)
- i. ☐ A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.
- ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below.
- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of an issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a \$180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).
4. ☐ The attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
5. ☐ Applicants set forth below concise explanations of the relevance of each document not in the English language and/or selected documents in the English language.

Respectfully submitted,

**Yunlong Sun, Jinjiao Liu , Richard S. Harris,  
Pradeep Subrahmanyam, Robert F. Hainsey,  
and Weixiong Lu**

By: Sandra K. Szczerbicki  
Sandra K. Szczerbicki  
Registration No. 53,666

STOEL RIVES LLP  
900 SW Fifth Avenue, Suite 2600  
Portland, Oregon 97204-1268  
Telephone: (503) 224-3380  
Facsimile: (503) 220-2480  
Attorney Docket No. 50001/91:1

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTORNEY DOCKET NO.  
50001/91:1

APPLICATION NO.

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)APPLICANT  
Yunlong Sun et al.

FILING DATE

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AF	6	5	3	4	2	4	1	03/18/2003	Fromson et al.	430	302	02/22/2002
	AA	2002/0185474 A1							12/12/2002	Dunsky et al.	219	121.7	
	AB	6	4	0	7	3	6	3	06/18/2002	Dunsky et al.	219	121.71	
	AC	5	8	4	1	0	9	9	11/24/1998	Owen et al.	219	121.69	
	AD	5	5	9	3	6	0	6	01/14/1997	Owen et al.	219	121.71	
	AE	5	4	5	3	5	9	4	09/26/1995	Konecny	219	121.61	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
		WO 03/002289 A1							9 January 2003	Patent Cooperation Treaty (PCT)	B23K 26/38			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	Liu, Yu-Ning and Kannatey-Asibu, Jr., E., "Finite Element Analysis of Heat Flow in Dual-Beam Laser Welded Tailored Blanks," from Transactions of the ASME, May 1998, Vol. 120, pp. 272-278.											
	AG	Liu, Y.-N. and Kannatey-Asibu, Jr., E., "Laser Beam Welding With Simultaneous Gaussian Laser Preheating," from Transactions of the ASME, February 1993, Vol. 115, pp. 34-41.											
	AH	Kannatey-Asibu, Jr., Elijah, "Thermal Aspects of the Split-Beam Laser Welding Concept," from Journal of Engineering Materials and Technology, April 1991, Vol. 113, pp. 215-221.											

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.